

*Amendments to the Claims*

This listing of claims will replace all prior versions, and listings of claims in the application.

1. (Currently Amended) A method for automatically exchanging objects in a wireless mobile environment, comprising:

- (1) initiating communication with a compatible element;
- (2) transmitting a request for objects to said compatible element;
- (3) receiving at least some of said requested objects from said

compatible element; and

- (4) processing said received objects;

wherein said compatible element includes at least one of an interrogator and a source within a wireless communication range of operation;

wherein step (3) is performed using a frequency down-conversion module comprising a switch, a capacitor coupled to said switch, and a pulse generator coupled to said switch; and

wherein said pulse generator outputs pulses to said switch, wherein said pulses have apertures and cause said switch to close and sub-sample a carrier signal over said apertures, and wherein energy is transferred from the carrier signal and stored using said capacitor during said apertures of said pulses, and wherein a lower frequency signal is generated from the transferred energy.

2. (Previously Amended) The method of claim 1, further comprising:

receiving from a user at least one of user preferences, profile, and instructions.

3. (original) The method of claim 1, wherein said objects comprise at least one of audio files, video files, multimedia files, software, and skins.

4. (Previously Amended) The method of claim 1, wherein steps (1), (2), (3), and (4) are performed without human involvement.

5. (Previously Amended) The method of claim 1, further comprising:
providing payment for said requested objects.

6. (Previously Amended) The method of claim 1, wherein step (1) comprises:
verifying that said compatible element has a sharing mode enabled; and
determining a set of objects said compatible element is sharing.

7. (Previously Amended) The method of claim 1, further comprising:
receiving a request for objects from said compatible element; and
transmitting at least some of said requested objects to said compatible
element.

8. (Previously Amended) The method of claim 7, further comprising:
receiving at least some of said requested objects from at least one of a
content provider, a functionality provider, and an interface provider.

9. (Previously Amended) The method of claim 1, further comprising:

communicating with a security device of a user.

10. (Previously Amended) The method of claim 2, further comprising:

generating said request based on at least one of said user preferences, profile, and instructions.

11. (Previously Amended) The method of claim 2, wherein step (4) further comprises:

providing said received objects to said user based on at least one of said user preferences, profile, and instructions.

12. (Currently Amended) An apparatus for automatically exchanging objects in a wireless mobile environment, comprising:

means for identifying a source;

means for transmitting a request for objects to said source;

means for receiving at least some of said requested objects from said source; and

means for processing said received objects;

wherein said source is within a wireless communication range of operation;

wherein said receiving means comprises a frequency down-conversion module comprising a switch, a capacitor coupled to said switch, and a pulse generator coupled to said switch; and

wherein said pulse generator outputs pulses to said switch, wherein said pulses have apertures and cause said switch to close and sub-sample a carrier signal over said apertures, and wherein energy is transferred from the carrier signal and stored using said capacitor during said apertures of said pulses, and wherein a lower frequency signal is generated from the transferred energy.

13. (Previously Amended) The apparatus of claim 12, further comprising:

means for receiving from a user of the apparatus at least one of user preferences, profile, and instructions.

14. (original) The apparatus of claim 12, wherein said objects comprise at least one of audio files, video files, multimedia files, software, and skins.

15. (Previously Amended) The apparatus of claim 12, further comprising:

means for providing payment for said requested objects.

16. (Previously Amended) The apparatus of claim 13, further comprising:

means for generating said request based on at least one of said user preferences, profile, and instructions, and a local storage of objects.

17. (Previously Amended) The apparatus of claim 13, wherein said processing

means provides said received objects to said user based on at least one of said user preferences, profile, and instructions.

18. (Previously Amended) The apparatus of claim 12, further comprising:

means for securing the apparatus, wherein a user engages said security means to interact with the apparatus.

19. (Previously Amended) The apparatus of claim 12, wherein said identifying means identifies said source based on a wireless communication range of operation of said source.

20. (Previously Amended) The apparatus of claim 19, further comprising:

means for receiving a request for objects; and

means for transmitting at least some of said requested objects.

21. (Previously Amended) The apparatus of claim 20, further comprising:

means for receiving at least some of said requested objects from at least one of a content provider, a functionality provider, and an interface provider.

22. (Currently Amended) A system for automatically exchanging objects in a wireless mobile environment, comprising:

a first element having a first wireless access point and a first controller;

and

a second element having a second wireless access point and a second controller, wherein said second wireless access point is capable of transmitting at least one object to said first element;

wherein said first wireless access point is capable of receiving the at least one object from said second element, and wherein said first element provides the at least one object to a user;

wherein said first wireless access point comprises a frequency down-conversion module comprising a switch, a capacitor coupled to said switch, and a pulse generator coupled to said switch; and

wherein said pulse generator outputs pulses to said switch, wherein said pulses have apertures and cause said switch to close and sub-sample a carrier signal over said apertures, and wherein energy is transferred from the carrier signal and stored using said capacitor during said apertures of said pulses, and wherein a lower frequency signal is generated from the transferred energy.

23. (Previously Presented) The system of claim 22, wherein said first wireless access point is capable of transmitting the at least one object to said second element, and wherein said second wireless access point is capable of receiving the at least one object from said first element.

24. (Previously Presented) The system of claim 22, wherein said first and second wireless access points include at least one of a receiver, a transmitter, and a transceiver.

25. (Previously Presented) The system of claim 22, wherein said first and second controllers include at least one of a hardware state machine and a processor operating according to software.

26. (Previously Presented) The system of claim 22, wherein said second wireless access point is within a wireless communication range of operation of said first wireless access point.

27. (Previously Presented) The system of claim 22, wherein the at least one object includes at least one of audio files, video files, multimedia files, software, and skins.

28. (Previously Presented) The system of claim 22, further comprising:
a security device having a third wireless access point and a third controller, wherein the user interacts with said security device to control access to said first element.

29. (Previously Presented) The system of claim 22, further comprising:
at least one of a content provider, a functionality provider, and an interface provider, wherein said second device is capable of receiving the at least one object from said at least one content provider, functionality provider, and interface provider.

30. (Previously Presented) The system of claim 22, wherein said first element receives from the user at least one of user preferences, profile, and instructions.

31. (Currently Amended) A method for a first vehicle to automatically exchange objects with a second vehicle in a wireless mobile environment, comprising:

(1) approaching the second vehicle;

(2) initiating communication with the second vehicle, wherein the second vehicle is within a wireless communication range of the first vehicle;

(3) transmitting a request for objects to the second vehicle;

(4) receiving at least some of the requested objects from the second vehicle; and

(5) processing the received objects;

wherein step (4) is performed using a frequency down-conversion module comprising a switch, a capacitor coupled to said switch, and a pulse generator coupled to said switch; and

wherein said pulse generator outputs pulses to said switch, wherein said pulses have apertures and cause said switch to close and sub-sample a carrier signal over said apertures, and wherein energy is transferred from the carrier signal and stored using said capacitor during said apertures of said pulses, and wherein a lower frequency signal is generated from the transferred energy.

32. (Previously Presented) The method of claim 31, further comprising:

performing steps (2)-(5) without human involvement.

33. (Previously Presented) The method of claim 31, wherein step (3) comprises:

transmitting a request to the second vehicle for at least one of audio files, video files, multimedia files, software, and skins.

34. (Previously Presented) The method of claim 31, further comprising:

receiving a request for objects from the second vehicle; and
transmitting at least some of the requested objects to the second vehicle.

35. (Previously Presented) The method of claim 31, further comprising:
receiving a request for payment information from the second vehicle for
the requested objects; and
providing the payment information to the second vehicle.

36. (Previously Presented) The method of claim 31, further comprising:
receiving at least one of user preferences, user profile, and instructions
from a user of the first vehicle.

37. (Previously Presented) The method of claim 36, further comprising:
providing the received objects to the user of the first vehicle.

38. (Previously Presented) The method of claim 36, further comprising:
communicating with a security device of the user of the first vehicle.

39. (Currently Amended) A method for automatically exchanging objects
between a vehicle and a service station in a wireless mobile environment, comprising:
(1) approaching the service station;
(2) initiating communication with the service station, wherein the service
station is within a wireless communication range of the vehicle;
(3) transmitting a request for objects to the service station;

(4) receiving at least some of the requested objects from the service station; and

(5) processing the received objects;

wherein step (4) is performed using a frequency down-conversion module comprising a switch, a capacitor coupled to said switch, and a pulse generator coupled to said switch; and

wherein said pulse generator outputs pulses to said switch, wherein said pulses have apertures and cause said switch to close and sub-sample a carrier signal over said apertures, and wherein energy is transferred from the carrier signal and stored using said capacitor during said apertures of said pulses, and wherein a lower frequency signal is generated from the transferred energy.

40. (Previously Presented) The method of claim 39, further comprising:

performing steps (2)-(5) without human involvement.

41. (Previously Presented) The method of claim 39, wherein step (3) comprises:

transmitting a request to the service station for at least one of audio files, video files, multimedia files, software, and skins.

42. (Previously Presented) The method of claim 39, further comprising:

receiving a request for objects from the service station; and

transmitting at least some of the requested objects to the service station.

43. (Previously Presented) The method of claim 39, further comprising:

receiving a request for payment information from the service station for the requested objects; and
providing the payment information to the service station.

44. (Previously Presented) The method of claim 39, further comprising:
receiving at least one of user preferences, user profile, and instructions from a user of the first vehicle.

45. (Previously Presented) The method of claim 44, further comprising:
providing the received objects to the user of the first vehicle.

46. (Previously Presented) The method of claim 44, further comprising:
communicating with a security device of the user of the first vehicle.

47. (Previously Presented) The apparatus of claim 12, wherein the apparatus includes a first vehicle.

48. (Previously Presented) The apparatus of claim 47, wherein said source includes a second vehicle.

49. (Previously Presented) The apparatus of claim 47, wherein said source includes a service station.

50. (Previously Presented) The apparatus of claim 12, wherein the apparatus includes a personal data assistant (PDA).

51. (Previously Presented) The apparatus of claim 50, wherein said source includes at least one of a restaurant, a store, and an information portal.

52. (Previously Presented) The apparatus of claim 18, wherein the apparatus includes a first vehicle, and wherein said means for securing the apparatus includes a key chain within a wireless communication range of operation of the first vehicle.

53. (Previously Presented) The system of claim 22, wherein said first element includes a first vehicle.

54. (Previously Presented) The system of claim 53, wherein said second element includes a second vehicle within a wireless communication range of operation of said first vehicle.

55. (Previously Presented) The system of claim 53, wherein said second element includes a service station within a wireless communication range of operation of said first vehicle.

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